JAVATM BYTECODE INSTRUCTION FOR RETRIEVING STRING REPRESENTATIONS OF JAVATM OBJECTS

ABSTRACT OF THE DISCLOSURE

Improved techniques for representing JAVATM objects as strings are disclosed. An inventive JAVATM Bytecode instruction suitable for execution by a JAVATM virtual machine is disclosed. The inventive JAVATM Bytecode instruction can be executed by a JAVATM virtual machine to represent JAVATM objects as strings. Moreover, JAVATM objects can be represented as strings without invoking the JAVATM "to_string" method which is conventionally used. This means that the costly overhead associated with repeatedly invoking JAVATM method "to_string" is avoided. In other words, operations that are conventionally performed each time the JAVATM "to_string" method is invoked need not be performed. As a result, the performance of virtual machines, especially those operating with limited resources (e.g., embedded systems) can be improved.

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